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SEQUENCE LISTING

<110> CHARNEAU, PIERRE  
ZENNOU, VERONIQUE  
FIRAT, HUSEYIN

<120> USE OF TRIPLEX STRUCTURE DNA SEQUENCES FOR TRANSFERRING  
NUCLEOTIDE SEQUENCES

<130> 03495.0199

<140> 09/688,990

<141> 2000-10-17

<150> PCT/FR99/00974

<151> 1999-04-23

<160> 33

<170> PatentIn Ver. 2.1

<210> 1

<211> 14

<212> DNA

<213> Lentivirus

<400> 1

aacaaaggga ggga

14

<210> 2

<211> 24

<212> DNA

<213> Lentivirus

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aaaaaatttt gtttttataa aatc

24

<210> 3

<211> 23

<212> DNA

<213> Artificial Sequence

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ccggatcccc accggtcgcc acc

23

<210> 4

<211> 23

<212> DNA

<213> Artificial Sequence

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ccctcgagct agagtcgagg ccg 23

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<213> Artificial Sequence

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gtcgtcggcg ccgaattcac aaatggcagt attcatcc 38

<210> 6  
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<212> DNA  
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gtcgtcggcg ccccaaagtg gatctctgct gtcc 34

<210> 7  
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<223> Description of Artificial Sequence: Synthetic  
oligonucleotide

<400> 7  
ccagatctac gcgtgccacc atggctgctg gt 32

<210> 8  
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<212> DNA  
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oligonucleotide

<400> 8  
cggaattcga cctaaacgca acggatg 27

<210> 9  
<211> 200  
<212> DNA

<213> Caprine arthritis encaphalitis virus

<400> 9

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gttccagcca caatttgtcg ctgtagaatc agccatagca gcagccctag tcgccataaa 60
tataaaaaga aagggtgggc tggggacaag ccctatggat atttttatat ataataaaga 120
acagaaaaga ataaataata aatataataa aaattctcaa aaaattcaat tctgttatta 180
cagaataagg aaaagaggac                                     200
```

<210> 10

<211> 200

<212> DNA

<213> Equine infectious anaemia virus

<400> 10

```
cttgtaacaa agggagggaa agtatgggag gacagacacc atgggaagta tttatcacta 60
atcaagcaca agtaatacat gagaaacttt tactacagca agcacaatcc tccaaaaaat 120
tttgttttta caaaatccct ggtgaacatg attggaaggg acctactagg gtgctgtgga 180
aggggtgatgg tgcagtagta                                     200
```

<210> 11

<211> 200

<212> DNA

<213> Lentivirus

<400> 11

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ggaccctcat tactctaaat ataaaaagaa aggggtgggct agggacaagc cctatggata 60
tatttatatt taataaggaa caacaaagaa tacagcaaca aagtaaatca aaacaagaaa 120
aaattcgatt ttgttattac agaacaagaa aaagagggga tccaggagag tggcaaggac 180
caacacaggt actttggggc                                     200
```

<210> 12

<211> 200

<212> DNA

<213> Simian immunodeficiency virus

<400> 12

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tactgatggc ttgcatactt cacaatttta aaagaaaggg aggaataggg ggacagactt 60
cagcagagag actaattaat ataataacaa cacaattaga aatacaacat ttacaaacca 120
aaattcaaaa aatttttaaat tttagagtct actacagaga agggagagac cctgtgtgga 180
aaggaccggc acaattaatc                                     200
```

<210> 13

<211> 200

<212> DNA

<213> Human immunodeficiency virus

<400> 13

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tgcataaatt ttaaaagaag ggggggaata ggggatatga ctccatcaga aagattaatc 60
aatatgatca ccacagaaca agagatacaa ttctccaag ccaaaaattc aaaattaaaa 120
gattttcggg tctatttcag agaaggcaga gatcagttgt ggaaaggacc tggggaacta 180
ctgtggaaag gagaaggagc                                     200
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<210> 14

<211> 200  
 <212> DNA  
 <213> Human immunodeficiency virus

<400> 14  
 cagtattcat ccacaatttt aaaagaaaag gggggattgg ggggtacagt gcaggggaaa 60  
 gaatagtaga cataatagca acagacatac aaactaaaga attacaaaaa caaattacaa 120  
 aaattcaaaa ttttcgggtt tattacaggg acagcagaga tccactttgg aaaggaccag 180  
 caaagctcct ctggaaaggt 200

<210> 15  
 <211> 15  
 <212> DNA  
 <213> Human immunodeficiency virus

<400> 15  
 aaaagaaaag ggggg 15

<210> 16  
 <211> 14  
 <212> DNA  
 <213> Human immunodeficiency virus

<400> 16  
 aaaacaaggg gggg 14

<210> 17  
 <211> 15  
 <212> DNA  
 <213> Unknown Organism

<220>  
 <223> Description of Unknown Organism: SIV mac or  
 HIV-2NH-Z

<400> 17  
 aaaagaaaag ggggg 15

<210> 18  
 <211> 15  
 <212> DNA  
 <213> Simian immunodeficiency virus

<400> 18  
 aaaagaaaag ggagg 15

<210> 19  
 <211> 22  
 <212> DNA  
 <213> Lentivirus

<400> 19  
 aaaaagaaaa aagaaagggt gg 22

<210> 20  
 <211> 22  
 <212> DNA  
 <213> Caprine arthritis encaphalitis virus

<400> 20  
 aaaaataaaa aaagaaaggg tg 22

<210> 21  
 <211> 13  
 <212> DNA  
 <213> Equine infectious anaemia virus

<400> 21  
 aacaaggggg gaa 13

<210> 22  
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 <212> PRT  
 <213> Unknown Organism

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 <223> Description of Unknown Organism: Melanoma peptide

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 Lys Thr Trp Gly Gln Tyr Trp Gln Val  
 1 5

<210> 23  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Melanoma peptide

<400> 23  
 Ile Thr Asp Gln Val Pro Phe Ser Val  
 1 5

<210> 24  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Melanoma peptide

<400> 24

Tyr Leu Glu Pro Gly Pro Val Thr Ala  
1 5

<210> 25

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Melanoma  
peptide

<400> 25

Leu Leu Asp Gly Thr Ala Thr Leu Arg Leu  
1 5 10

<210> 26

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Melanoma  
peptide

<400> 26

Ala Ala Gly Ile Gly Ile Leu Thr Val  
1 5

<210> 27

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Melanoma  
peptide

<400> 27

Ile Leu Thr Val Ile Leu Gly Val Leu  
1 5

<210> 28

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Melanoma  
peptide

<400> 28

Met Leu Leu Ala Val Leu Tyr Cys Leu

1

5

<210> 29

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

~~---<223> Description of Artificial Sequence: Melanoma~~  
peptide

<400> 29

Tyr Met Asp Gly Thr Met Ser Gln Val

1

5

<210> 30

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Melanoma  
peptide

<400> 30

Val Leu Pro Asp Val Phe Ile Arg Cys

1

5

<210> 31

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Melanoma  
peptide

<400> 31

Phe Leu Trp Gly Pro Arg Ala Leu Val

1

5

<210> 32

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Melanoma  
polyepitope



&lt;400&gt; 32

Ala Ala Gly Ile Gly Ile Leu Thr Val Phe Leu Trp Gly Pro Arg Ala  
 1 5 10 15

Leu Val Met Leu Leu Ala Val Leu Tyr Cys Leu Leu Leu Asp Gly Thr  
 20 25 30

Ala Thr Leu Arg Leu Lys Thr Trp Gly Gln Tyr Trp Gln Val Tyr Met  
 35 40 45

Asp Gly Thr Met Ser Gln Val Ile Thr Asp Gln Val Pro Phe Ser Val  
 50 55 60

Tyr Leu Glu Pro Gly Pro Val Thr Ala Ile Leu Thr Val Ile Leu Gly  
 65 70 75 80

Val Leu Val Leu Pro Asp Val Phe Ile Arg Cys Val  
 85 90

&lt;210&gt; 33

&lt;211&gt; 119

&lt;212&gt; DNA

&lt;213&gt; Human immunodeficiency virus

&lt;400&gt; 33

ttttaaaaga aaagggggga ttgggggggta cagtgcaggg gaaagaatag tagacataat 60  
 agcaacagac atacaaacta aagaattaca aaaacaaatt acaaaaattc aaaattttc 119